THOMSON MULTI MEDIA

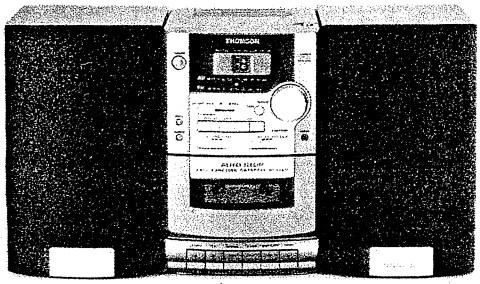
Brandt FERGUSON SABA TELEFUNKEN THOMSON

AUDIO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

THOMSON

VTCD 1100
VTCD 1110



Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Caracteristicas del aparato

Type of set : **Type d'appareil :** **Geräteart :** **Tipo d'apparecchio :** **Tipo de aparato :**	Radio / Cassette recorder / CD-Player Combiné radio cassette / CD CD-Radio Cassetten Portable Insieme radio cassette / CD Radio cassette / CD	↔ 145 mm ↕ 220 mm ↗ 200 mm 2,3 kg	
Power supply : **Alimentation :** **Stromversorgung :** **Alimentazione :** **Alimentación :**	230 V ∿ 50Hz	**Nominal output power :** **Puissance nominale de sortie :** **Nennausgangsleistung :** **potenza nominale di uscita :** **Potencia nominal de salida :**	2 x 2 W (rms)
FM - MF : **MW - PO :** **LW - GO :**	87,5 - 108 MHz 522 - 1620 kHz 150 - 283 kHz	**Sensitivity :** **Sensibilité :** **FM - MF :** **Empfindlichkeit :** **MW - PO :** **Sensibilità :** **LW - GO :** **Sensibilidad :**	8 µV/m (S/N = 26 dB) 1000 µV/m (S/N = 20 dB) 2500 µV/m (S/N = 20 dB)
Frequency response : **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	125 Hz - 8 kHz (+3/-6 dB)	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	40/45 dB
Wow and fluttter : **Fluctuations :** **Gleichlauf :** **Fluttuazioni :** **Fluctuaciones :**	0,35 %	→	4,76 cm/S
		<< ▶▶ >> << ◀◀ >>	C60 : 170 S
DAD **Disc rotation speed :** **Vitesse de rotation du disque :** **CD-Drehgeschwindigkeit :** **Velocità di rotazione del disco :** **Velocidad de rotación del disco :**	200 ➡ 500 tr/m	**Frequency response :** **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	40 Hz - 18kHz (+3/-6 dB)
Dynamic range : **Gamme dynamique :** **Dynamikumfang :** **Dinamica :** **Dinámica :**	60 dB	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	62,5 dB

WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 350 898 80 - 0999 / 4,1M - CRKD1240 Print

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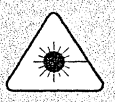


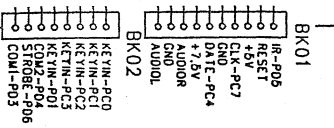
CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1
APARATO CON LASER DE CLASE 1
APPARECCHIO CON LASER DI CLASSE 1

DANGER :	**Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.**
ATTENTION :	**Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.**
VORSICHT BEI REPARATUREN :	**Bei geöffneter Schublade und Defekt der Sicherheits - vorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.**
ATTENZIONE :	**Il raggio laser è invisibile. Evitare l'esposizione diretta durante la manutenzione.**
IMPORTANTE :	**El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.**

DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

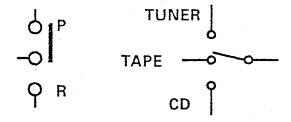
The complete Digital Processing Module is available from A. S. S. under Part Number :
En SAV, l'ensemble du module traitement digital est géré sous le code :
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el código :

106 145 40

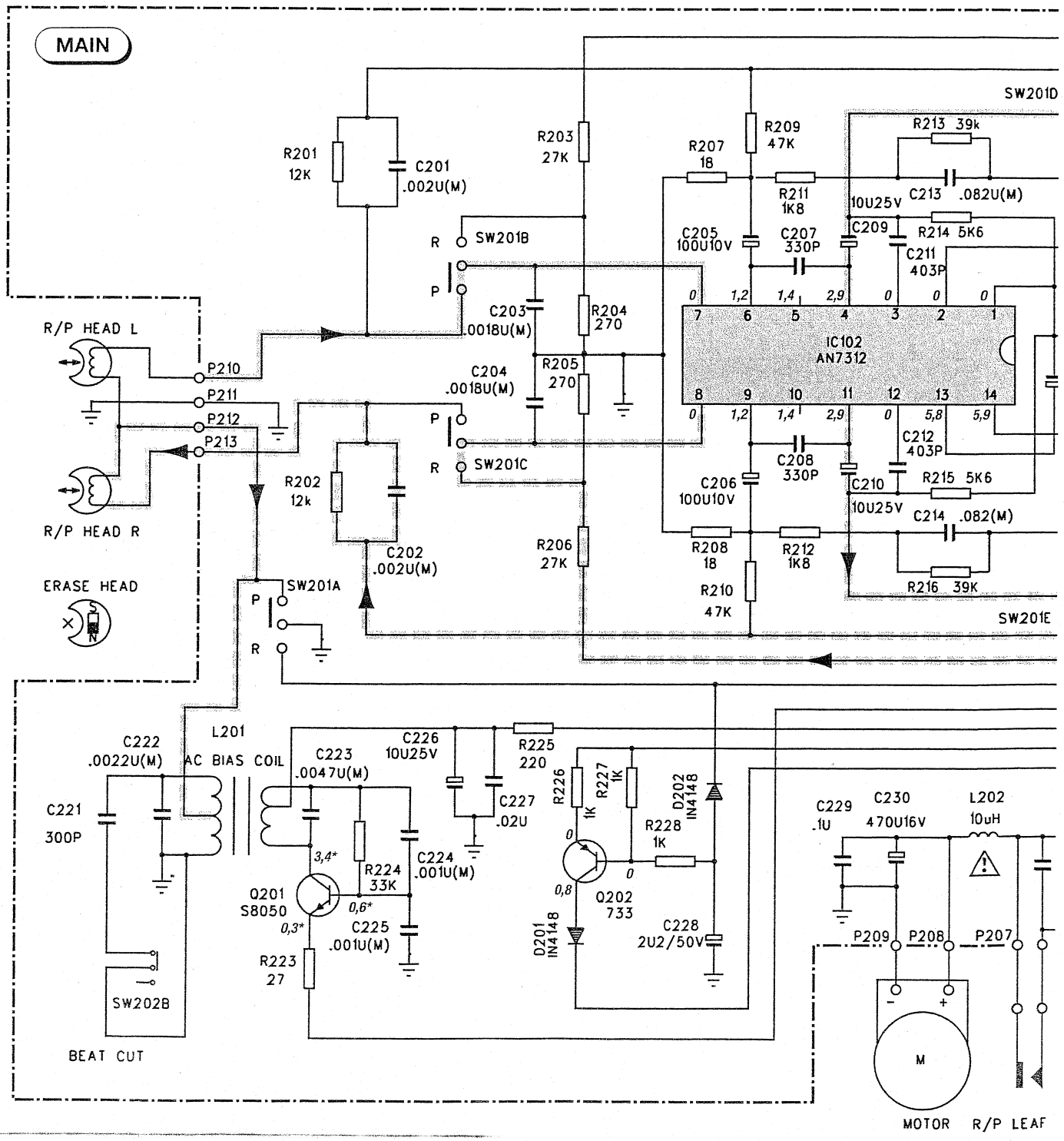


MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - HAUPTPLATINE S (TAPE AND AUDIO & POWER PART)

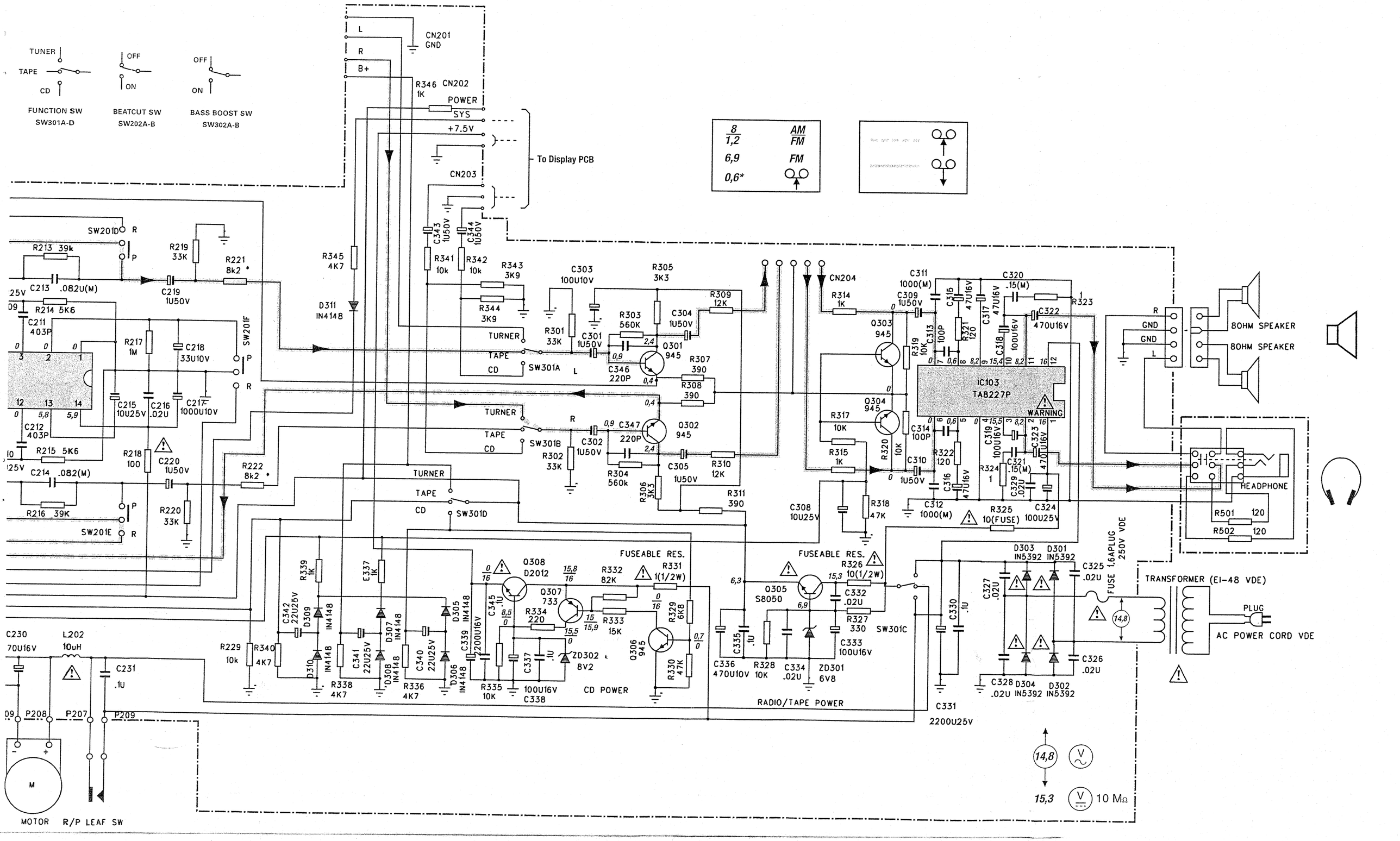
REMARK:
THIS MARK INDICATES THAT THE ADJACENT COMPONENT IS CONSIDERED CRITICAL WITH RESPECT TO THE RISK OF FIRE AND ELECTRICAL SHOCK ASSOCIATED WITH THIS PRODUCT. WHEN REPLACING ANY OF THESE COMPONENT, USE ONLY PARTS SUPPLIED BY MANFACTURER PART NUMBERS ARE.



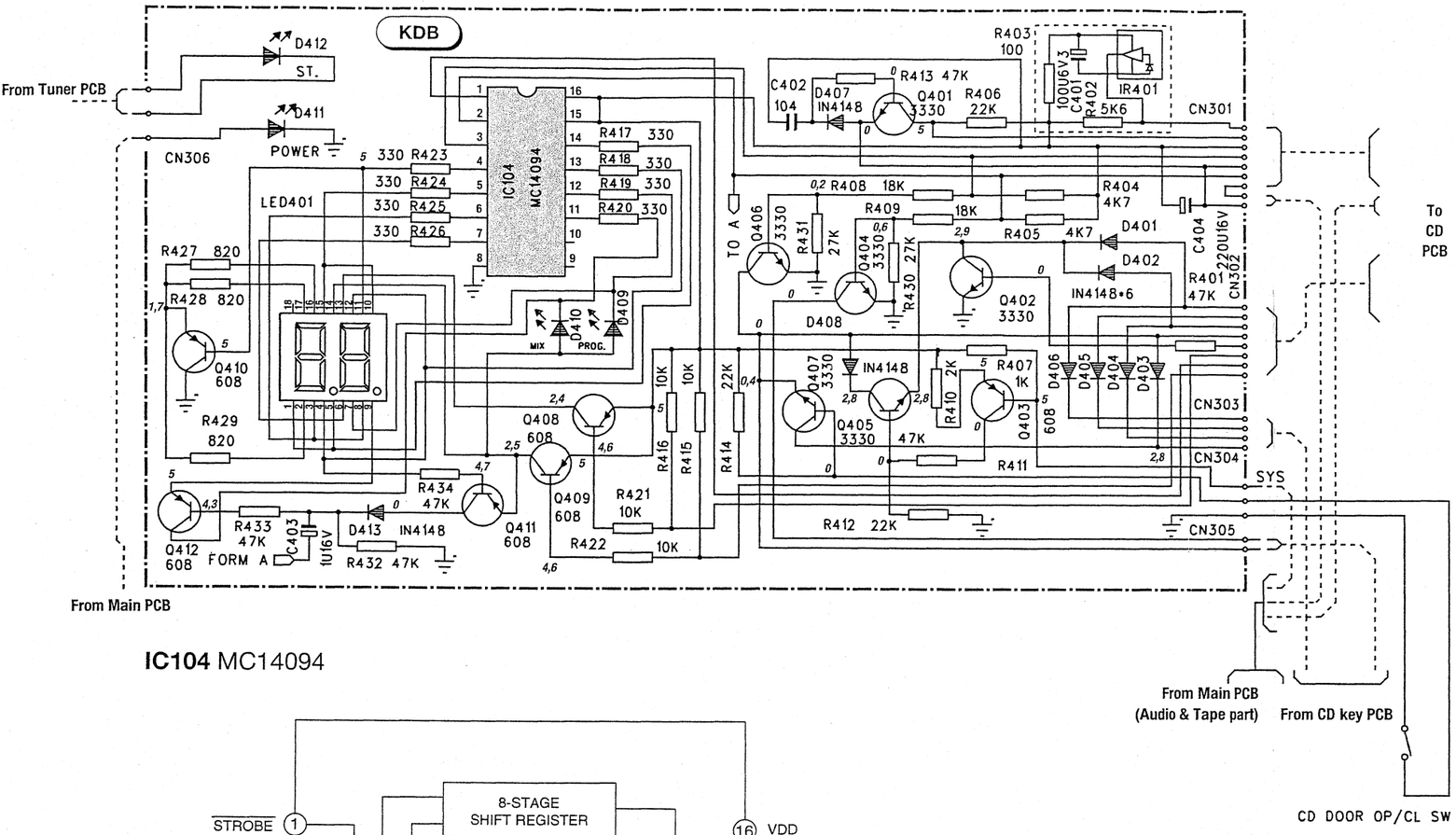
R/P SW. SW201A-F | FUNCTION SW SW301A-D | BE



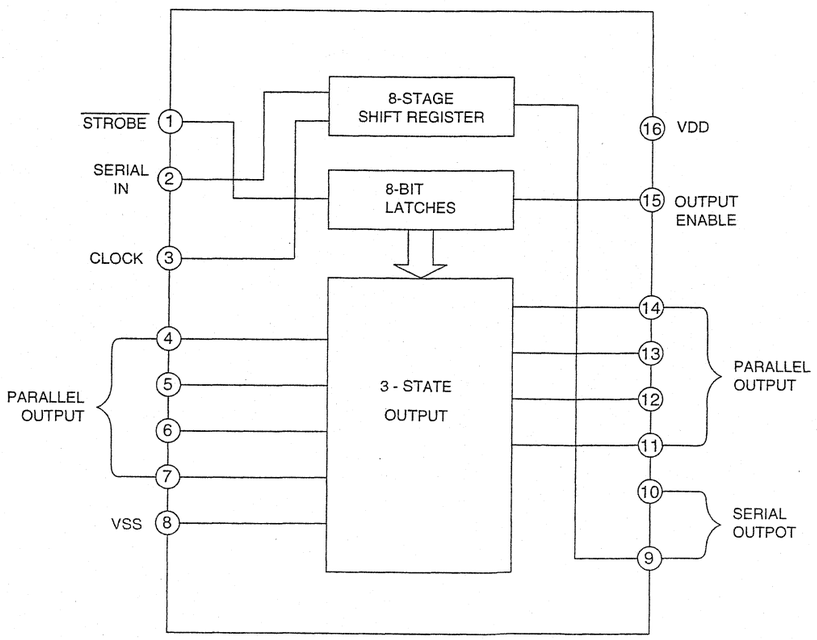
AUPTPLATINE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL



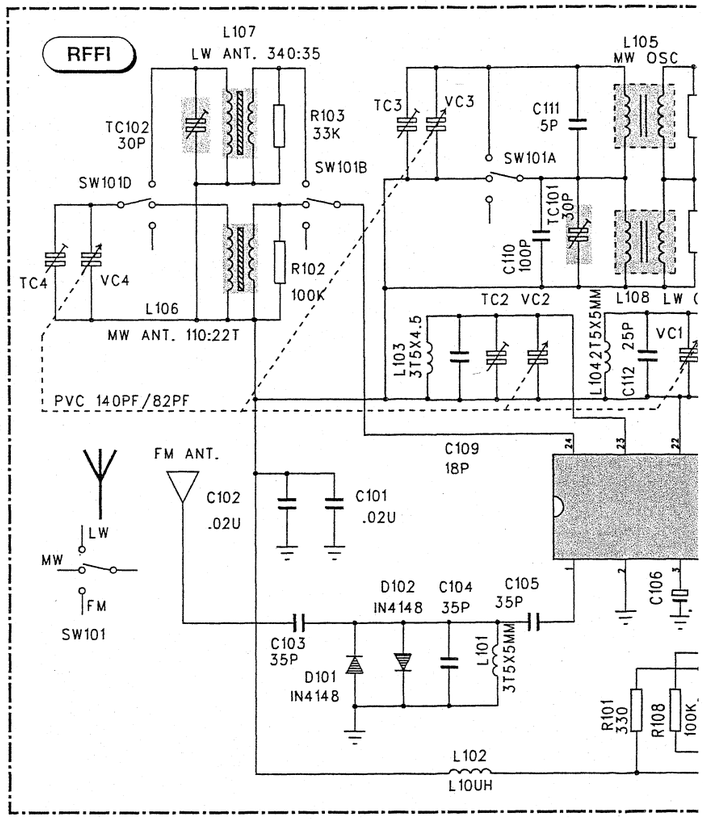
CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - SCHALTBILD BEDIENTEIL / ANZEIGE - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR



IC104 MC14094

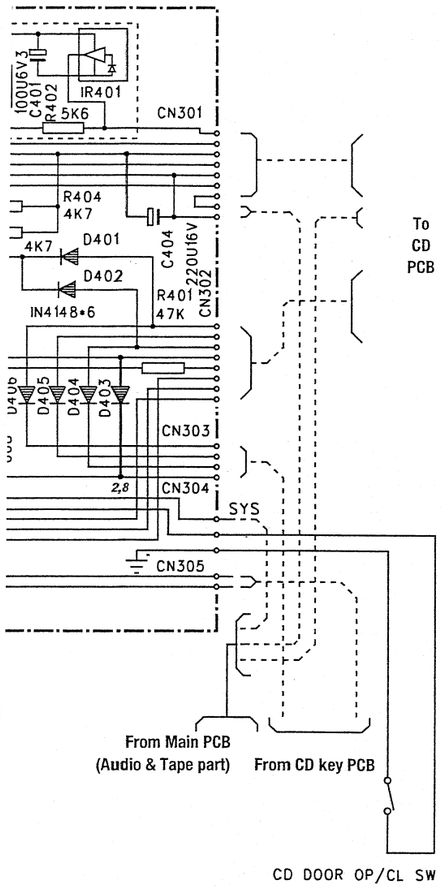


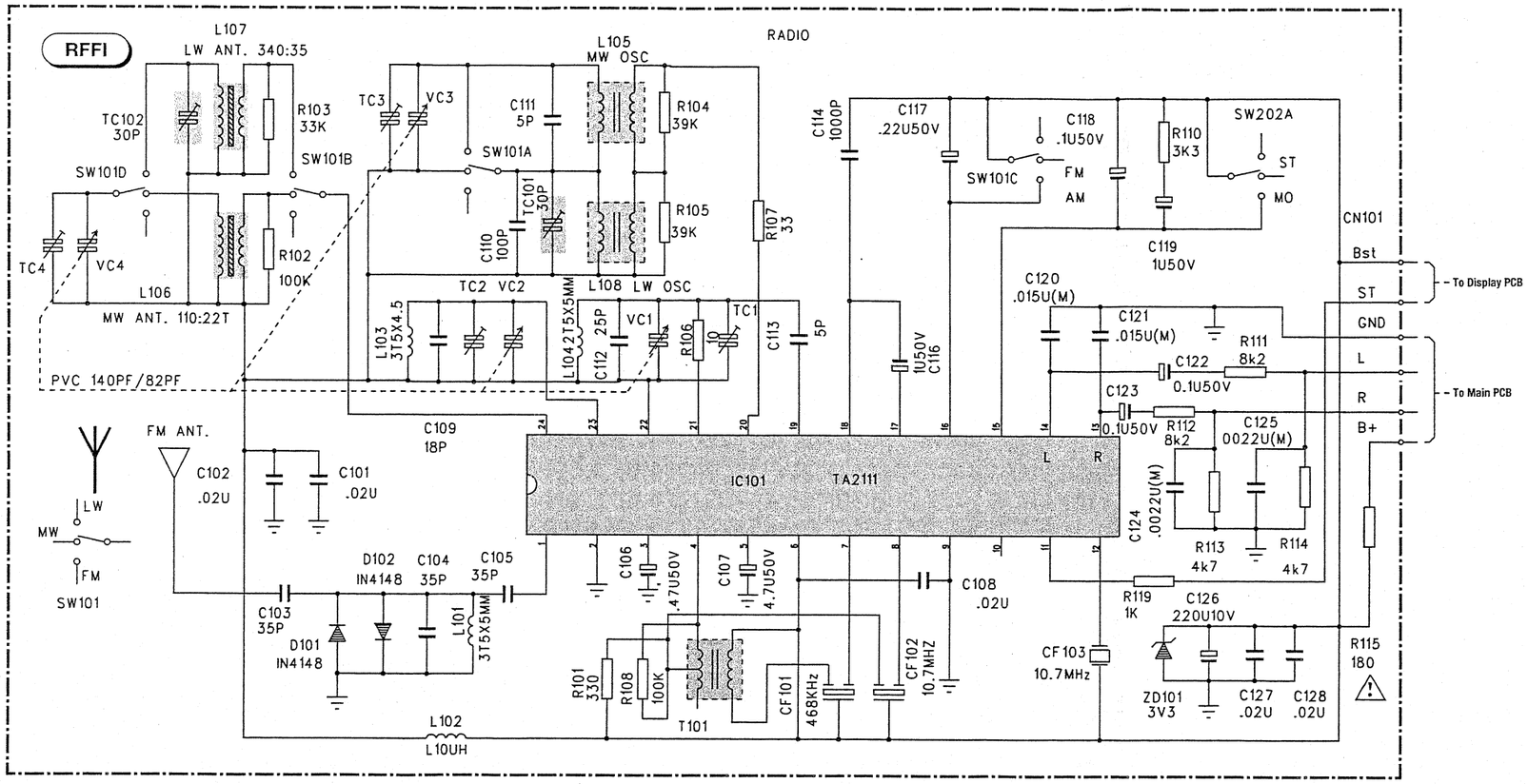
RF / FI SCHEMATIC DIAGRAM - SCHEMA HF / FI - HF /



IC101	FM	AM		FM	AM
1	*0,8*	*0*	13	*1,1*	*1,2*
2	*0*	*0*	14	*1,2*	*1,2*
3	*0,3*	*1,2*	15	*2,6*	*2,9*
4	*3,2*	*3,6*	16	*2,2*	*3,6*
5	*0,6*	*0,5*	17	*0,7*	*0,7*
6	*3,3*	*3,6*	18	1,3	*1*
7	*2,8*	*3*	19	*0,5*	*1,2*
8	*3,3*	*3,6*	20	*3,3*	*3,6*
9	*0*	*0*	21	*3,4*	*3,6*
10	*0*	*0*	22	*3,3*	*3,6*
11	*0*	*0*	23	*3,3*	*3,6*
12	*2,6*	*3,1*	24	*2,2*	*3,6*

RF / FI SCHEMATIC DIAGRAM - SCHEMA HF / FI - HF / ZF SCHALTBILD - SCHEMA HF / FI - ESQUEMA RF / FI





IC101	FM	AM		FM	AM
1	*0,8*	*0*	13	*1,1*	*1,2*
2	*0*	*0*	14	*1,2*	*1,2*
3	*0,3*	*1,2*	15	*2,6*	*2,9*
4	*3,2*	*3,6*	16	*2,2*	*3,6*
5	*0,6*	*0,5*	17	*0,7*	*0,7*
6	*3,3*	*3,6*	18	1,3	*1*
7	*2,8*	*3*	19	*0,5*	*1,2*
8	*3,3*	*3,6*	20	*3,3*	*3,6*
9	*0*	*0*	21	*3,4*	*3,6*
10	*0*	*0*	22	*3,3*	*3,6*
11	*0*	*0*	23	*3,3*	*3,6*
12	*2,6*	*3,1*	24	*2,2*	*3,6*

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

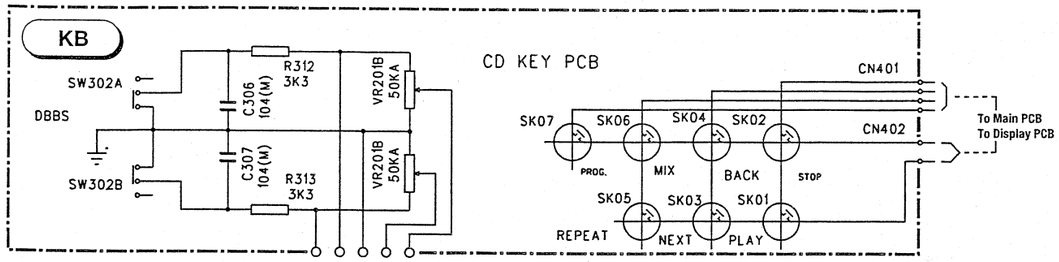
AM alignment

			f	18888 KHZ		
MW PO	1	Gf	468 kHz	600 kHz	T 101	TPHP max.
	2		520 kHz	Low end	L 105	TPHP max.
	3		1635 kHz	High end	VC3	TPHP max.
	4	Gf	1400 kHz	600 kHz	L 106	TPHP max.
	5		1400 kHz	1400 kHz	VC4	TPHP max.
	6		1000 kHz	1000 kHz	T 101	TPHP max.
LW GO	1		144 kHz	Low end	L 108	TPHP max.
	2		285 kHz	High end	TC 101	TPHP max.
	3	Gf	160 kHz	160 kHz	L 107	TPHP max.
	4		260 kHz	260 kHz	TC 102	TPHP max.
	5		200 kHz	200 kHz	L 108	TPHP max.

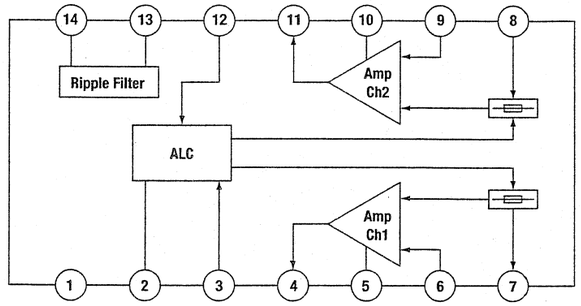
FM alignment

			f	18888 KHZ		
IF	1		10,7 MHz	10,7 MHz		TP HP Check for center output (symétrie)
FM	2	Gf	87 MHz	87 MHz	L 104	TPHP max.
	3		109 MHz	109 MHz	VC1	TPHP max.
	4		90 MHz	90 MHz	L 103	TPHP max.
	5		106 MHz	106 MHz	VC2	TPHP max.

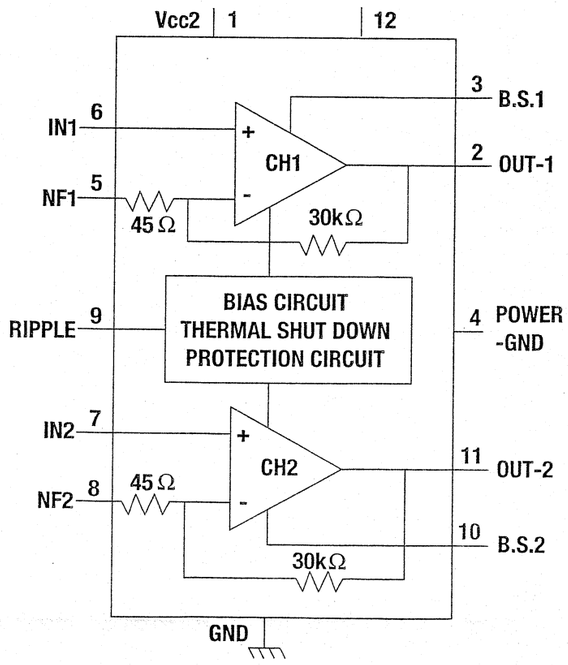
CD CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR CD - CD BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE CD - ESQUEMA MANDOS / INDICADOR CD



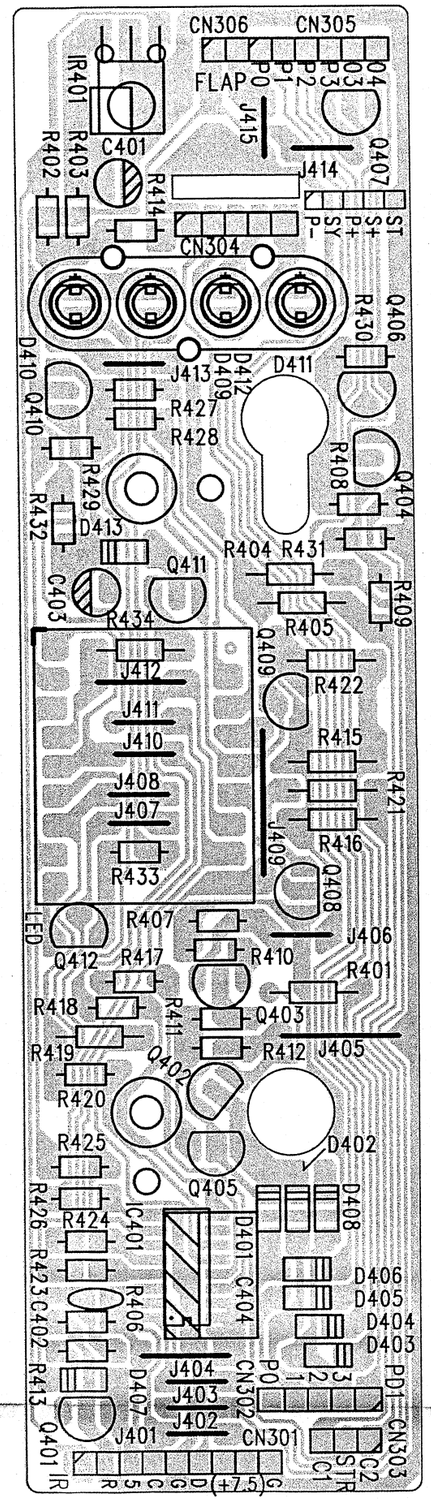
IC102 AN7312



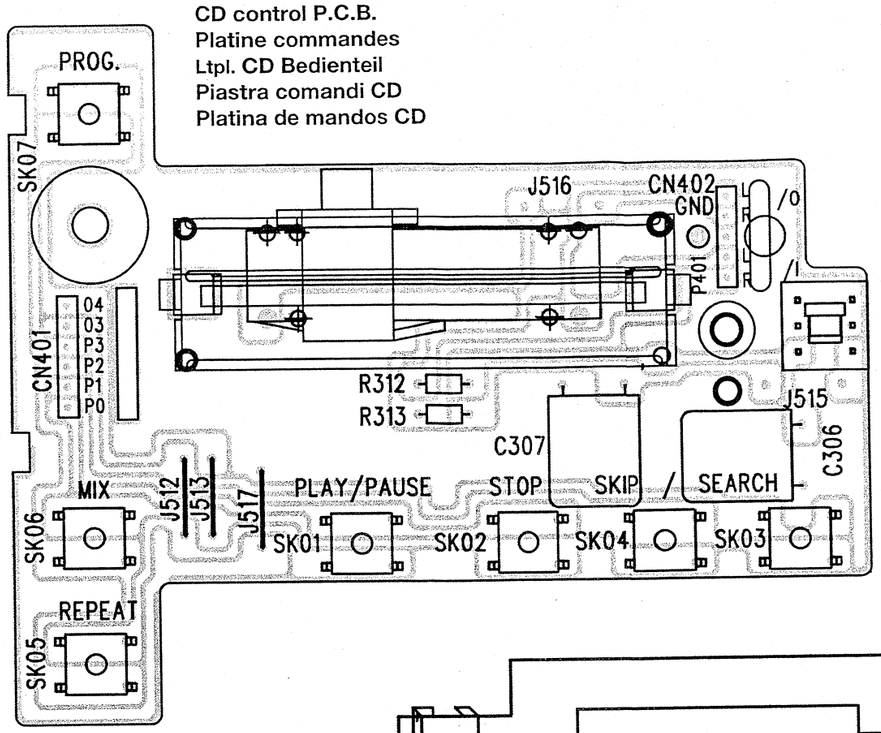
IC103 TA8227P

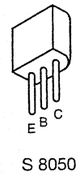


Controls / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicadores

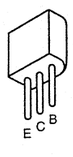


CD control P.C.B.
Platine commandes
Ltpl. CD Bedienteil
Piastra comandi CD
Platina de mandos CD





S 8050



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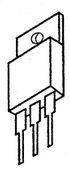

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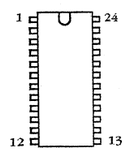
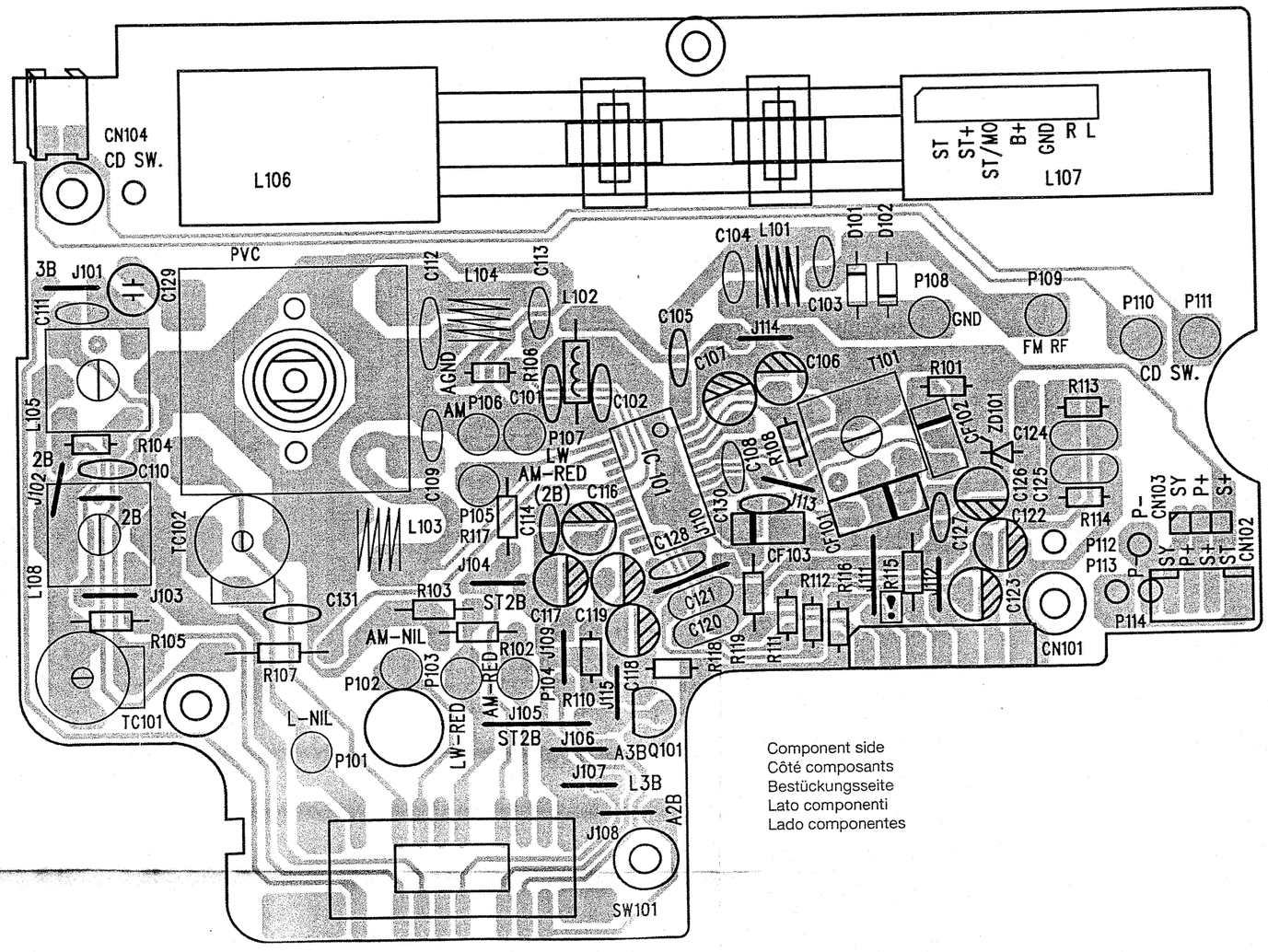


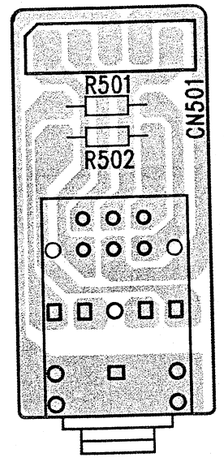
TA 2111

RF /FI P.C.B.
Platine HF / FI
HF / ZF Ltpl.
Piastra RF / FI
Platina RF / FI

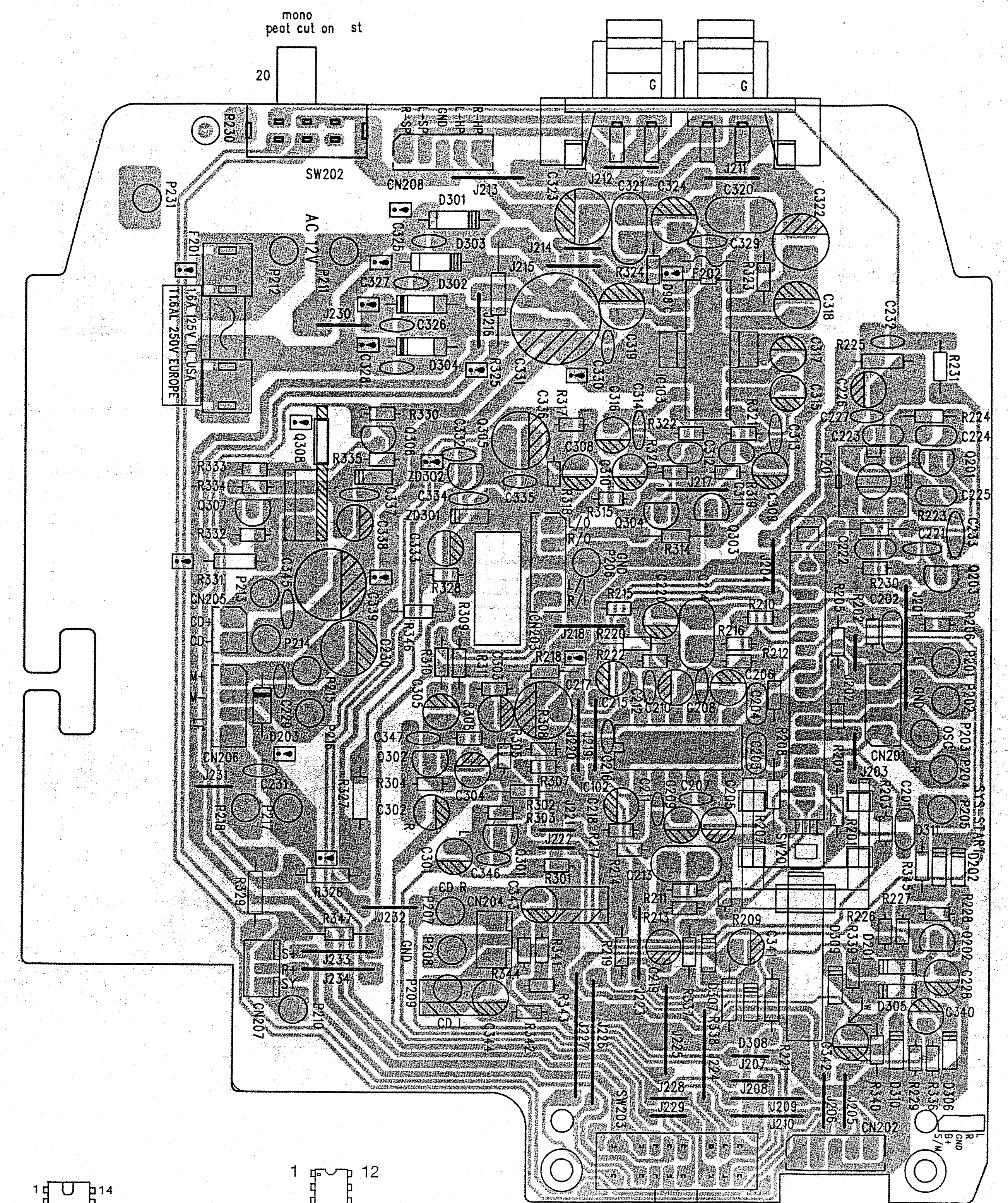


Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Headphone-jack P.C.B.
Platine prise-casque
Kopfhörerbuchse Ltpl.
Piastra presa per cuffia
Platina toma auriculares



Main P.C.B.
Platine principale
Hauptplatine
Piastra principale
Platina principal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P230
SW202
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L-SP
GND
L-HP
R-HP
CN208
P231
F201
1.6A 125V UL USA
T1.6AL 250V EUROPE
P212
AC 12V
P211
J230
CN205
CD+
CD-
M+
M-
CN206
J231
CN207
S+
P+
SY
CD R
CN204
CD L
GND
CN203
L/O
R/O
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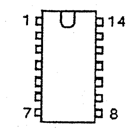
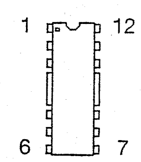
SYS START
CN202
SW203
SW201
S/M
B+
GND
R
L



AN 7312



TA 8227P